10-12-06

163/4

PATENT

DOCKET NO.: ISIS-2112



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Nielsen, et al.

Application No.: 08/817,067

Filing Date: April 4, 1997

For: Peptide Nucleic Acid Conjugates

Confirmation No.: 7706

Group Art Unit: 1631

Examiner: Michael L. Borin

EXPRESS MAIL LABEL NO: EV 816198170US

DATE OF DEPOSIT: October 10, 2006

EA97P74975002

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT, REQUEST AND PROCESSING FEE TO DELETE AND/OR ADD TO ORIGINAL ERRONEOUSLY NAMED OR NOT NAMED INVENTOR(S) IN DECLARATION - NONPROVISIONAL APPLICATION PURSUANT TO 37 CFR § 1.48(a)

This amendment and request is to correct the incorrect original naming of inventor(s) in the declaration under 37 CFR § 1.48(a) as set forth and filed on April 4, 1997.

Addition and/or Deletion of Inventor(s)

Add the following previously unnamed person(s) as inventor(s) of this application:

Rolf Henrik Berg

Delete the following previously	incorrectly named inventor(s	,
---------------------------------	------------------------------	---

10/16/2006 WASFAW1 00000104 233050 08817067

01 FC:1464

130.00 DA

Δ	tta	ch	m	en	te

Attach	ned is									
	\bowtie	A atata	and from							
		A State	ement from	414	Z)					
			(check iter	ms tnat	appıy)					
		\boxtimes	each person b	eing a	dded as	an in	ventor	that t	he er	ror in
			inventorship oc	ccurred	without c	lecepti	ive inte	ntion o	n his	or her
			part. 37 CFR §	1.48(a)	(1).					
			each person b	eing de	eleted as	an ir	nventor	that t	he er	ror in
			inventorship oc	ccurred	without c	decepti	ive inte	ntion o	n his	or her
			part. 37 CFR §	1.48(a)	(1).					
	\boxtimes		aration by each or or as permitted b							
			n assent of the as gnment). 37 CF			the or	iginal i	nvento	rs exe	cuted
Processing Fe	e Paym	ent (37	CFR § 1.17(i))							
	A chec	ck in the	e amount of \$130	<u>0.00</u> is a	attached.					
\boxtimes		_	Deposit Accourted in duplicate.	nt No. 2	23-3050 i	n the	amount	of <u>\$1.</u>	<u>30.00</u> .	This
	overpa	yment	ioner is hereby a of the fees as 23-3050.			_	-	-		•
Date: Octobe	er 10, 20	06			John C	i H	and	لر.~		· ·
					John A. F	Harrels	on, Jr.			
					Registrati	ion No	. 42,63	7		

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103 Telephone: (215) 568-3100 Facsimile: (215) 568-3439



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Confirmation No.: 7706

Nielsen, et al

Serial No.: 08/817,067

Group Art Unit: 1631

Filing Date: April 7, 1997

Examiner: Ardin H. Marschel

For: Peptide Nucleic Acid Conjugates

Assistant Commissioner for Patents Washington, D.C. 20231

STATEMENT IN SUPPORT OF PETITION TO CORRECT INVENTORSHIP

I, Rolf Henrik Berg, state that:

- 1. An error in inventorship exists in the above-identified patent application.
- 2. The error arose because I am an inventor of subject matter disclosed in the above-identified application but was inadvertently omitted in the declaration filed April 4, 1997.
- 3. I understand that, to correct this error, I am being added as an inventor.
- 4. This error in inventorship occurred without deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this statement is directed.

Date: 01 Sep 2006

Rolf Henrik Berg

Aug-23-06 10:04am From-WoodcockWashburn
DOCKET NO.: ISIS-2112

cockWashburn +2165693499

9

-716 P.010/028 F-341



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Poter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Mancharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

/3 CIBILLICO	ing to, winer, -	
	Utility Patent	Design Patent
is sought o	n the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4	. 1997 as Serial No. <u>08/817,067</u> .
	Soid application hav	ing been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Aug=23=06

05 Sep 2006 13:35

10:04am From-1

From-WoodcockWashburn

DOCKET NO.: ISIS-2112

+2155663438

T-718 P.011/028 F-841

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
X	PCL	EP/01219	May 22, 1992
×	Dennark	986/91	May 24, 1991
×	Denmark	987/91	May 24, 1991
X	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
		
		

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all husiness in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

" 05 Sep 2006 13:35

Aug-28-08 10:05am Fron-WoodcockWarhburn
DOCKET NO.: ISIS-2112

+2165603439

T-716 P.012/028 F-341

s.10

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Nume:	100
Peter E. Nielsen	Mil
Mailing Address:	Signature
Tesdorpfsvej 49	Dute of Signature: Syd. 5-2006
Frederiksburg DK 2000	Date of Signature:
	Citizenship: Denmark
City/State of Actual Residence:	Cytizensuip: Demnark
Frederiksberg Demnark	

Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Homback	Date of Signature:
City/State of Actual Residence: Homback, Denmark	Citizenship: Donmark

10:05am From-WoodcockWashburn Aug-23-06 DOCKET NO.: ISIS-2112

+2155683439 T-718 P.013/028 F-341 PATENT

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loeviosten 16 DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	Citizenanih: Dollmark

Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Donmark	Citizensuib. Dennimik

Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Cistranal Donmark
Madison, Connecticut	Citizenship: Denmark

I

Aug-23-08 10:05am From-WoodcockWashburn

+2155683439

T-718 P.014/028 F-941 PA:11EN:1

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Claiman I Inica & Cruza e S. A. van eine
Weston, Massachuseπs	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	İ
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	
•	Citizenship: United States of America
San Diego, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Claimanuhine Viviand Spaces of A
San Diego, California	Citizenship: United States of America

ı

Aug-23-08 10:05am From-WoodcockWashburn
PUCRELI 190.: 1515-2112

+2155883439

7-716 P.015/028 F-841 FA'L'EN'I'

Name:	
Kelly Sprænkle	
Mailing Address:	Signature
1024 Gleneagles Place Visia, C:A 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	·
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsied Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

		Design Patent
is sought	on the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4	<u>, 1997</u> as Serial No. <u>08/817,067</u> .
	said application hav	ing been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	

Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	Dork Bulland
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature: 31-8-2006
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
<u> </u>	
Loevtoften 16 DK 2630 Taastrup, Denmark	Date of Signature:
Dix 2030 Taustrup, Definition	
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	Citizenship. Denmark
Name:	
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Madison, Connecticut	

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	·
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	Citizenship. Officed States of America
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizanshine United States of America
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
9	
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought c	on the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4.	<u>, 1997</u> as Serial No. <u>08/817,067</u> .
	Said application have	ing been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	50/15
Mailing Address:	Signature
Loevtoften 16 DK 2630 Taastrup, Denmark	Date of Signature: 3/6 - 06
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	Citizenship. Dennark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Ciuzensnip. Demnark

	,
Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
Weston, Massachusetts	Cinica States of Famorica
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	Data of Sign atoms
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	Data of Circulations
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citiganghine Danmark
2960 Rungsted Kyst, Denmark	Citizenship: Denmark

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	□ Utility Patent	Design Patent
is sought	on the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4	<u>1, 1997</u> as Serial No. <u>08/817,067</u> .
	Said application has	ring been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
,	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Name:

DOCKET NO.: ISIS-2112

PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8	
3100 Hornback	Date of Signature:
City/State of Actual Residence:	
Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
BOTOM IN BOTTOM TO	
Mailing Address:	Signature
Loevtoften 16	Data - ROLL - Access
DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	┪
	Citizenship: Denmark
Taastrup, Denmark	
	<u> </u>
Name:	
Jesper Lohse	1 91
	desper rome
Mailing Address:	Signature Jesser Lulia
Hulgardsvej 92 st. th.	
DK2400 Copenhagen Denmark	Date of Signature: 0920-2066
2.12 to Copolinagon Dominar	Date of Diguature. D. 100 Dece
City/State of Actual Residence:	1
	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
Michael Egholm	
Malling Address.	Simodena
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Madison, Connecticut	
	1

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
W CSION, Wassachusetts	
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	Citizenship. Officer States of America
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	•

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought	on the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4	<u>, 1997</u> as Serial No. <u>08/817,067</u> .
	Said application hav	ing been amended on 08/03/98: 05/24/99: 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
-	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

 $32650_{\text{patent trademark office}}$

Address all correspondence to:

Klosterrisvej 8

3100 Hornback

Hornback, Denmark

City/State of Actual Residence:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature

Date of Signature:

Citizenship: Denmark

Name:	
ivanic.	
Soren H. Sonnechsen	
Solon II. Solmionson	
Mailing Address:	Signature
S S	
Loevtoften 16	
DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	
	Citizenship: Denmark
Taastrup, Denmark	
Name:	
Jesper Lohse	
	<u> </u>
Mailing Address:	Signature
Hulandarai 02 at th	
Hulgardsvej 92 st. th.	Date of Signature:
DK2400 Copenhagen Denmark	Date of Signature.
City/State of Actual Residence:	
City/State of Actual Residence.	Citizenship: Denmark
Copenhagen, Denmark	- Summing
Copeniagen, Demiark	^
·	
	A . $A \land A$
Name:	
Michael Egholm	
	100000(1)
Mailing Address:	Signature \bigcup
	A = A = A
11 Highview Road	24/2006
Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	C'41 1
	Citizenship: Denmark
Madison, Connecticut	

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	Data of Signatures
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
Weston, Massachusetts	
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	Data of Giovatores
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought c	on the invention, whose title ap	ppears above, the specification of which:
	is attached hereto.	
	was filed on April 4,	<u>1997</u> as Serial No. <u>08/817,067</u> .
	Said application having	ng been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
_		

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	
DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Taastrup, Denmark	
	,
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Copenhagen, Denmark	Citizenship. Deliniark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Citizensnip. Denmark

Name:	
Muthiah Manoharan	Autainh Meshen
Mailing Address:	Signature
25 Circle Drive 19 ROLLING LADE Weston, MA 02493	Date of Signature: August 25, 2006
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	
San Diego, California	Citizenship: United States of America
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizanahina I Initad States of Association
San Diego, California	Citizenship: United States of America

Name:	
Kelly Sprankle	
Table of the second of the sec	
Mailing Address:	Signature
1024 Gleneagles Place	
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	<u> </u>
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
	_
City/State of Actual Residence:	
·	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchar H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

OCT 1 0 2006

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought on	the invention, whose title ap	ppears above, the specification of which:
	is attached hereto.	
	was filed on April 4,	<u>1997</u> as Serial No. <u>08/817,067</u> .
	said application having	ng been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
•	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Klosterrisvej 8 3100 Hornback

Hornback, Denmark

City/State of Actual Residence:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature

Date of Signature:

Citizenship: Denmark

PATENT

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	Citi
Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Circumbian Daniel
Madison, Connecticut	Citizenship: Denmark

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	
Weston, Massachusetts	Citizenship: United States of America
Name:	0 , 12 ,
John Kiely	John Kiely
Mailing Address:	Signature ()
16790 Chirco Drive Los Gatos, CA 95032	Date of Signature: 09/09/05
City/State of Actual Residence:	
-	Citizenship: United States of America
Los Gatos, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	
San Diego, CA 92121	Date of Signature:
City/State of Actual Desidences	
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place	
Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citihima Dommonia
2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	☐ Utility Patent	Design Patent
is sought on t	he invention, whose title appea	ars above, the specification of which:
	is attached hereto.	
	was filed on April 4, 199	<u>7</u> as Serial No. <u>08/817,067</u> .
	said application having b	een amended on <u>08/03/98; 05/24/99; 03/23/00</u> .

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
	Denmark	986/91	May 24, 1991
	Denmark	987/91	May 24, 1991
	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968
	<u> </u>	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
·	

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	

Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
	*
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	
DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence:	
City/State of Metual Residence.	Citizenship: Denmark
Taastrup, Denmark	
Name:	
Jesper Lohse	
-	
Mailing Address:	Signature
Hulgardsvej 92 st. th.	·
DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence:	
•	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
Michael Echeles	
Michael Egholm	
Mailing Address:	Signature
11 Highview Pood	
11 Highview Road Madison, CT 06443	Date of Signature:
· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,
City/State of Actual Residence:	Citizenship: Denmark
Madison, Connecticut	Cidzensmp. Denmark
	·

Name:	T
Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
Weston, IVIII 02493	Date of Signature.
City/State of Actual Residence:	1
	Citizenship: United States of America
Weston, Massachusetts	
Name:	
John Kiely	
tom Holy	
Mailing Address:	Signature
16790 Chirco Drive	The second
Los Gatos, CA 95032	Date of Signature:
City/State of Actual Residence:	
y	Citizenship: United States of America
Los Gatos, California	
	•
Name:	
201 101001	March 1 11 silver
Michael Griffith	Ormehael Britis
Mailing Address:	Signature
Willing Address.	Signature
4997 Willow Ridge Court	10/2/00
Zionsville, IN 46077	Signature Date of Signature: 10/3/06
C'A CA A DE L'	
City/State of Actual Residence:	Citizenship: United States of America
Zionsville, IN	Citizenship. Omited States of Afficia

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081	Date of Signature:
City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America
Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6	
2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	
2960 Rungsted Kyst, Denmark	Citizenship: Denmark

DOCKET NO.: ISIS-2112



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought	on the invention, whose title	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4	., 1997 as Serial No. <u>08/817,067</u> .
	Said application hav	ring been amended on 08/03/98; 05/24/99; 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign** application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
\boxtimes	PCT	EP/01219	May 22, 1992
\boxtimes	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650 PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49 Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	

Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8 3100 Hornback	Date of Signature:
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name:	
rame:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16	
DK 2630 Taastrup, Denmark	Date of Signature:
	1
City/State of Actual Residence:	Citizenship: Denmark
Taastrun Danmark	Citizenship. Demilark
Taastrup, Denmark	
	1
Name:	
Jesper Lohse	
N/ -212 A 3 2	Signature
Mailing Address:	Signature
Hulgardsvej 92 st. th.	
DK2400 Copenhagen Denmark	Date of Signature:
oo oopennagen Dominark	<u></u>
City/State of Actual Residence:	1
	Citizenship: Denmark
Copenhagen, Denmark	
Name:	
1 (dille)	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road	
Madison, CT 06443	Date of Signature:
G11 /G1 : G1	4
City/State of Actual Residence:	Citizenshine Donmant
Madison Connecticut	Citizenship: Denmark
Madison, Connecticut	

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive	
Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
Weston, Massachusetts	Citizenship. Officed States of Afficiea
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil	Date of Signatures
San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	
Name:	
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road	Date of Signature:
San Diego, CA 92121	Date of Signature.
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	

Name:	
Kelly Sprankle	LM6 Smank
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081	Date of Signature: 8-29-66
City/State of Actual Residence:	
Vista, California	Citizenship: United States of America

Name:	
Rolf Henrik Berg	
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	Citizenship. Bolimark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen; Jesper Lohse; Michael Egholm; Muthiah Manoharan; John Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

	Utility Patent	Design Patent
is sought or	n the invention, whose title a	appears above, the specification of which:
	is attached hereto.	
	was filed on April 4,	1997 as Serial No. <u>08/817,067</u> .
	Said application havi	ng been amended on 08/03/98: 05/24/99: 03/23/00

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

DOCKET NO.: ISIS-2112

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
	PCT	EP/01219	May 22, 1992
	Denmark	986/91	May 24, 1991
\boxtimes	Denmark	987/91	May 24, 1991
\boxtimes	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name:	
Peter E. Nielsen	
Mailing Address:	Signature
Tesdorpfsvej 49	
Frederiksberg DK 2000	Date of Signature:
City/State of Actual Residence:	Citizenship: Denmark
Frederiksberg Denmark	
Name:	Dorte Buchardt (on behalf of Ole Buchardt)
Ole Buchardt (deceased)	
Mailing Address:	Signature
Klosterrisvej 8	
3100 Hornback	Date of Signature:
City/State of Actual Residence:	
Hornback, Denmark	Citizenship: Denmark

PATENT

Name:	
Soren H. Sonnechsen	
Mailing Address:	Signature
Loevtoften 16 DK 2630 Taastrup, Denmark	Date of Signature:
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark
Name:	
Jesper Lohse	
Mailing Address:	Signature
Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Date of Signature:
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark
	•
Name:	
Michael Egholm	
Mailing Address:	Signature
11 Highview Road Madison, CT 06443	Date of Signature:
City/State of Actual Residence:	Citizanahina Dammanla
Madison, Connecticut	Citizenship: Denmark

Name:	
Muthiah Manoharan	
Mailing Address:	Signature
25 Circle Drive Weston, MA 02493	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
Weston, Massachusetts	Citizenship. Officed States of America
Name:	
John Kiely	
Mailing Address:	Signature
4230 Corte Facil San Diego, CA 92130	Date of Signature:
City/State of Actual Residence:	Citizanshim. Haitad States of America
San Diego, California	Citizenship: United States of America
Name:	1
Michael Griffith	
Mailing Address:	Signature
5676 Greenshade Road San Diego, CA 92121	Date of Signature:
City/State of Actual Residence:	Citizenship: United States of America
San Diego, California	Citizenship: Officed States of America

DOCKET NO.: ISIS-2112

PATENT

Name:	
Kelly Sprankle	
Mailing Address:	Signature
1024 Gleneagles Place Vista, CA 92081 City/State of Actual Residence:	Date of Signature:
Vista, California	Citizenship: United States of America

Name:	
Rolf Henrik Berg	RUZ.
Mailing Address:	Signature
Strandvaenget 6 2960 Rungsted Kyst, Denmark	Date of Signature: 01 Sep 2006
City/State of Actual Residence:	Citizenship: Denmark
2960 Rungsted Kyst, Denmark	